

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>CB</i>	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
<i>CB</i>	AB1	4,743,546	05/10/1988	Backman, K.C. <i>et al.</i>	435	108	02/13/1985
<i>CB</i>	AC1	4,959,317	09/25/1990	Sauer, B.L.	435	172.3	04/29/1987
<i>CB</i>	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
<i>CB</i>	AE1	5,286,632	02/15/1994	Jones, D.H.	435	91.2	01/09/1991
<i>CB</i>	AF1	5,348,886	09/20/1994	Lee, S.C. <i>et al.</i>	435	320.1	09/04/1992
<i>CB</i>	AG1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
<i>CB</i>	AH1	5,434,066	07/18/1995	Bebbee, R.L. <i>et al.</i>	435	172.3	03/15/1994
<i>CB</i>	AI1	5,470,727	11/28/1995	Mascarenhas, D. <i>et al.</i>	435	172.3	12/21/1993
<i>CB</i>	AJ1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
<i>CB</i>	AK1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>CB</i>	AL1	EP 0 160 571	11/06/1985	Europe			Yes No
<i>CB</i>	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
<i>CB</i>	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
<i>CB</i>	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
<i>CB</i>	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>CB</i>	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage $\lambda$ xis Gene Product Required for $\lambda$ Excisive Recombination," <i>J. Biol. Chem.</i> 257:9658-9662, American Society of Biological Chemists, Inc. (1982).
<i>CB</i>	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination: Purification and Properties of the Cre Recombinase Protein," <i>J. Biol. Chem.</i> 259:1509-1514, American Society of Biological Chemists, Inc. (1984).
<i>CB</i>	AT	1	Abremski, K., <i>et al.</i> , "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products following Recombination," <i>Cell</i> 32:1301-1311, Massachusetts Institute of Technology (1983).

EXAMINER <i>William Smith</i>	DATE CONSIDERED <i>9-1-02</i>
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,635,381	06/03/1997	Hooykaas, P.J.J. <i>et al.</i>	435	172.3	01/20/1995
	AB2	5,650,308	07/22/1997	Baum, J.A.	435	172.3	06/07/1995
	AC2	5,658,772	08/19/1997	Odell, J.T. <i>et al.</i>	435	172.3	07/27/1994
	AD2	5,677,170	10/14/1997	Devine, S.E. <i>et al.</i>	435	320.1	03/02/1994
	AE2	5,677,177	10/14/1997	Wahl, G.M. <i>et al.</i>	435	325	06/07/1995
	AF2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AG2	5,723,765	03/03/1998	Oliver, M.J. <i>et al.</i>	800	205	06/07/1995
	AH2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AI2	5,733,743	03/31/1998	Johnson, K.S. <i>et al.</i>	435	69.1	11/18/1994
	AJ2	5,744,336	04/28/1998	Hodges, T.K. <i>et al.</i>	435	172.3	03/08/1996
	AK2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 93/15191	08/05/1993	WIPO			Yes No
	AM2	WO 93/19172	09/30/1993	WIPO			Yes No
	AN2	CA 2,141,412	02/17/1994	Canada			Yes No
	AO2	WO 94/09127	04/28/1994	WIPO			Yes No
	AP2	WO 94/17176	08/04/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	2	Abremski, K., <i>et al.</i> , "Bacteriophage P1 Cre- <i>loxP</i> Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," <i>J. Biol. Chem.</i> 261:391-396, American Society of Biological Chemists, Inc. (1986).
	AS	2	Adams, D. E., <i>et al.</i> , "Cre- <i>lox</i> Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>in Vitro</i> Reaction," <i>J. Mol. Biol.</i> 226:661-673, Academic Press, Inc. (1992).
	AT	2	Albert, H., <i>et al.</i> , "Site-specific integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome," <i>Plant J.</i> 7:649-659, Blackwell Science Ltd. (1995).

EXAMINER	William Smith	DATE CONSIDERED	4-1-03
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Page 3 of 61

FORM PTO-1449

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 ATTY. DOCKET NO. 0942.285000D/BJD/MTT  
 PUBLICATION NO. 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>CP</i>	AA3	5,776,449	07/07/1998	Baum, J.A.	424	93.2	09/20/1996
<i>CP</i>	AB3	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
<i>CP</i>	AC3	5,837,242	11/17/1998	Holliger, K.-P. <i>et al.</i>	424	136.1	05/14/1996
<i>CP</i>	AD3	5,843,772	12/01/1998	Devine, S.E. <i>et al.</i>	435	320.1	06/10/1996
<i>CP</i>	AE3	5,851,808	12/22/1998	Elledge, S.J. <i>et al.</i>	435	172.3	02/28/1997
<i>CP</i>	AF3	5,858,657	01/12/1999	Winter, G.P. <i>et al.</i>	435	6	06/07/1995
<i>CP</i>	AG3	5,871,907	02/16/1999	Winter, G.P. <i>et al.</i>	435	6	03/31/1994
<i>CP</i>	AH3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
<i>CP</i>	AI3	5,888,732	03/30/1999	Hartley, J.L. <i>et al.</i>	435	6	06/07/1996
<i>CP</i>	AJ3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
<i>CP</i>	AK3	5,919,676	07/06/1999	Graham, F.L. <i>et al.</i>	435	172.3	06/07/1995

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>CP</i>	AL3	WO 95/00555	01/05/1995	WIPO			Yes No
<i>CP</i>	AM3	WO 96/40724	12/19/1996	WIPO			Yes No
<i>CP</i>	AN3	WO 97/06265	02/20/1997	WIPO			Yes No
<i>CP</i>	AO3	WO 97/09436	03/13/1997	WIPO			Yes No
<i>CP</i>	AP3	WO 97/25446	07/17/1997	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>CP</i>	AR	3	Andrews, B.J., <i>et al.</i> , "The FLP Recombinase of the 2 $\mu$ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803, Massachusetts Institute of Technology (1985).
<i>CP</i>	AS	3	Andrews, B.J., <i>et al.</i> , "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2 $\mu$ Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology (1986).
<i>CP</i>	AT	3	Anton, M. and Graham, F. L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology (1995).

EXAMINER

*William S. Smith*

DATE CONSIDERED

*4-1-02*

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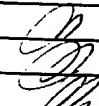
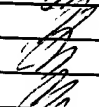
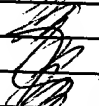
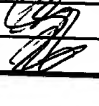

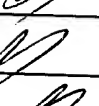
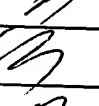


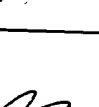

Page 4 of 61

FORM PTO-1449


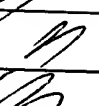
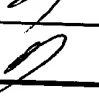


## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.285000D/BJD/MTT  
TECH CENTER 1800/2000  
APPLICATION NO. 00/2000APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636




## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	5,928,914	07/27/1999	Leboulch, P. <i>et al.</i>	435	172.3	11/05/1996
	AB4	5,989,872	11/23/1999	Luo, Y. <i>et al.</i>	435	91.2	08/12/1997
	AC4	6,010,884	01/04/2000	Griffiths, A.D. <i>et al.</i>	435	69.7	05/29/1996
	AD4	6,040,430	03/21/2000	Stewart, F.	530	358	12/26/1995
	AE4	6,143,557	11/07/2000	Hartley, J.L. <i>et al.</i>	435	320.1	01/20/1999
	AF4	6,171,861 B1	01/09/2001	Hartley, J.L. <i>et al.</i>	435	455	01/12/1998
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 97/32481	09/12/1997	WIPO			Yes No
	AM4	WO 98/10086	03/12/1998	WIPO			Yes No
	AN4	WO 98/53056	11/26/1998	WIPO			Yes No
	AO4	WO 99/10488	03/04/1999	WIPO			Yes No
	AP4	WO 99/21977	05/06/1999	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Araki, H., <i>et al.</i> , "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press, Inc. (1992).
	AS	4	Argos, P., <i>et al.</i> , "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5:433-440, IRL Press Ltd. (1986).
	AT	4	Atlung, T., <i>et al.</i> , "A versatile method for integration of genes and gene fusions into the $\lambda$ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier Science (1991).

EXAMINER

William S. Smith

DATE CONSIDERED

4-1-03

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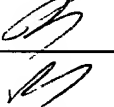

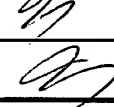

OCT 26 2001




Page 5 of 61

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 99/25851	05/27/1999	WIPO			Yes No
	AM5	WO 99/55851	11/04/1999	WIPO			Yes No
	AN5	EP 1 035 208 A1	09/13/2000	Europe			Yes No
	AO5	WO 00/60091	10/12/2000	WIPO			Yes No
	AP5	WO 01/05961 A1	01/25/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	5	Ausubel, F.M., <i>et al.</i> , "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , pp. 1.5.3-1.5.4, John Wiley & Sons, Inc., Boston, MA, (1995).
	AS	5	Ausubel, F. M., <i>et al.</i> , "Mutagenesis by the Polymerase Chain Reaction," in <i>Current Protocols in Molecular Biology</i> , pp. 8.5.1-8.5.9, John Wiley & Sons, Inc., Boston, MA, (1995).
	AT	5	Babineau, D., <i>et al.</i> , "The FLP Protein of the 2-micron Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society of Biological Chemists, Inc. (1985).

EXAMINER	William S. S. S.	DATE CONSIDERED	7-1-03
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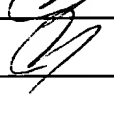
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OCT 26 2001

Page 6 of 61

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U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 01/11058 A1	02/15/2001	WIPO	1	1	Yes No
	AM6	WO 92/22650	12/23/1992	WIPO	1	1	Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	6	Balakrishnan, R., <i>et al.</i> , "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p <sub>i</sub> expression vectors," <i>Gene</i> 138:101-104, Elsevier Science (1994).
	AS	6	Bayley, C.C., <i>et al.</i> , "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site-specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Kluwer Academic Publishers (1992).
	AT	6	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing (August 1996).

EXAMINER	William Smith	DATE CONSIDERED	4-1-07
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OCT 26 2001

Page 7 of 61

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U.S. PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	Z	Bernard, P. and Couturier, M., "Cell Killing by the F Plasmid CcdB Protein Involves Poisoning of DNA-Topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press Ltd. (1992).
	AS	Z	Bernard, P., <i>et al.</i> , "Positive-selection vectors using the F plasmid <i>ccdB</i> killer gene," <i>Gene</i> 148:71-74, Elsevier Science (1994).
	AT	Z	Bethke, B. and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834, Oxford University Press (July 1997).

EXAMINER	<i>Wahla Sankh</i>	DATE CONSIDERED	4-1-03
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Page 8 of 61



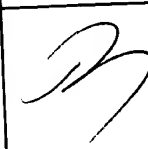
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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Betz, U.A.K., <i>et al.</i> , "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd. (October 1996).
	AS	8	Bhandari, P. and Gowrishankar, J., "An <i>Escherichia coli</i> Host Strain Useful for Efficient Overproduction of Cloned Gene Products with NaCl as the Inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology (July 1997).
	AT	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier Science (1986).

EXAMINER

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Page 9 of 61

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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.285000D/BJD/MTT

APPLICATION NO.  
09/907,900

APPLICANT  
HARTLEY *et al.*

FILING DATE  
July 19, 2001

GROUP  
1636




U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Bloch, C.A., <i>et al.</i> , "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc. (1996).
	AS	2	Bochner, B.R., <i>et al.</i> , "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology (1980).
	AT	2	Boyd, A.C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21:817-821, Oxford University Press (1993).

EXAMINER

*William S. Smith*

DATE CONSIDERED 4-1-02

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OCT 26 2001

Page 10 of 61

FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

TECH CENTER 16002900  
ATTY. DOCKET NO.  
0942.285000D/BJD/MTT  
INVENTION NO.  
097902900  
APPLICANT  
HARTLEY *et al.*  
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Broach, J.R., <i>et al.</i> , "Recombination within the Yeast Plasmid 2 $\mu$ Circle is Site-Specific," <i>Cell</i> 29:227-234, Massachusetts Institute of Technology (1982).
	AS	10	Brunelli, J.P. and Pall, M.L., "A Series of Yeast/ <i>Escherichia coli</i> $\lambda$ Expression Vectors Designed for Directional Cloning of cDNAs and <i>cre/lox</i> -Mediated Plasmid Excision," <i>Yeast</i> 9:1309-1318, John Wiley And Sons Ltd. (1993).
	AT	10	Brunelli, J.P. and Pall, M.L., "Lambda/Plasmid Vector Construction by <i>In Vivo cre/lox</i> -Mediated Recombination," <i>BioTechniques</i> 16:1061-1064, Eaton Publishing (1994).

EXAMINER

*William Sambl*

DATE CONSIDERED 4-1-03

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OCT 26 2001

Page 11 of 61

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET 0942.285000D/BJD/MTT	TECH CENTER 1600/2900 APPLICATION NO. 0942.285000D/BJD/MTT
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	11	Bubeck, P., <i>et al.</i> , "Rapid cloning by homologous recombination <i>in vivo</i> ," <i>Nucl. Acids Res.</i> 21:3601-3602, Oxford university Press (1993).
	AS	11	Buchholz, F., <i>et al.</i> , "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," <i>Nucl. Acids Res.</i> 24:3118-3119, Oxford University Press (August 1996).
	AT	11	Buchholz, F., <i>et al.</i> , "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," <i>Nucl. Acids Res.</i> 24:4256-4262, Oxford University Press (November 1996).

EXAMINER	W.M. [Signature]	DATE CONSIDERED	4-1-03
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Page 12 of 61

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000D/BJD/MTT		COMMUNICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>		
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	AR	<u>12</u>	Bushman, W., <i>et al.</i> , "Control of Directionality in Lambda Site Specific Recombination," <i>Science</i> 230:906-911, American Association for the Advancement of Science (1985).
	AS	<u>12</u>	Campbell, A.M., "Chromosomal Insertion Sites for Phages and Plasmids," <i>J. Bacteriol.</i> 174:7495-7499, American Society for Microbiology (1992).
	AT	<u>12</u>	Chapin, S.J., <i>et al.</i> , "Differential Expression of Alternatively Spliced Forms of MAP4: A Repertoire of Structurally Different Microtubule-Binding Domains," <i>Biochem.</i> 34:2289-2301, American Chemical Society (February 1995).

EXAMINER <i>William Smith</i>	DATE CONSIDERED <i>7-1-02</i>
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OCT 26 2001

Page 13 of 61

FORM PTO-1449

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0942.285000D/BJD/MTTAPPLICATION NO.  
0942.285000, 900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636




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	AR	<u>13</u>	Chatterjee, P.K. and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by <i>in vivo</i> P1 packaging of products of Cre-catalysed recombination between the endogenous and a transposed <i>loxP</i> site," <i>Nucl. Acids Res.</i> 25:2205-2212, Oxford University Press (June 1997).
	AS	<u>13</u>	Cox, M.M., "The FLP protein of the yeast 2- $\mu$ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227, National Academy of Sciences (1983).
	AT	<u>13</u>	Craig, N.L. and Nash, H.A., "The Mechanism of Phage $\lambda$ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase," <i>Cell</i> 35:795-803, Massachusetts Institute of Technology (1983).

EXAMINER	William Smith	DATE CONSIDERED	4-1-03
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	AR	14	Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier Science (1990).
	AS	14	Dale, E.C. and Ow, D.W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562, National Academy of Sciences (1991).
	AT	14	Dale, E.C. and Ow, D.W., "Mutations in the Cre/lox Recombination Site Enhance the Stability of Recombination Products: Applications for Gene Targeting in Plants," <i>J. Cell. Biochem.</i> 16(Suppl. F):206, abstract no. Y 108, Wiley-Liss, Inc. (1992).

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William S. Smith

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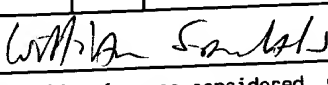
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	15	Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375, Wiley-Liss, Inc. (1992).
	AS	15	Davies, J. and Reichmann, L., "An antibody VH domain with a <i>lox</i> -Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," <i>FEBS Letts.</i> 377:92-96, Elsevier Science (1995).
	AT	15	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50, Elsevier Science (April 1996).
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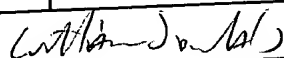
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Devine, S.E. and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis," <i>Nucl. Acids Res.</i> 22:3765-3772, Oxford University Press (1994).
	AS	16	Diederich, L., <i>et al.</i> , "New Cloning Vectors for Integration into the $\lambda$ Attachment Site <i>attB</i> of the <i>Escherichia coli</i> Chromosome," <i>Plasmid</i> 28:14-24, Academic Press, Inc. (1992).
	AT	16	Dymecki, S.M., "A modular set of <i>Flp</i> , <i>FRT</i> and <i>lacZ</i> fusion vectors for manipulating genes by site-specific recombination," <i>Gene</i> 171:197-201, Elsevier Science (June 1996).

EXAMINER



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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Elledge, S.J., <i>et al.</i> , "XYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences (1991).
	AS	17	Feil, R., <i>et al.</i> , "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc. (August 1997).
	AT	17	Ferguson, J., <i>et al.</i> , "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland Biomedical Press (1981).

EXAMINER

*William S. Smith*

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	18	Fiering, S., <i>et al.</i> , "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the $\beta$ -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473, National Academy of Sciences (1993).
	AS	18	Filutowicz, M., <i>et al.</i> , "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150, Elsevier Science (1994).
	AT	18	Francia, M.V., <i>et al.</i> , "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898, American Society for Microbiology (February 1996).

EXAMINER

*William S. Smith*

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	19	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection <i>lox</i> integration vector allows highly reproducible gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:7905-7909, National Academy of Sciences (1992).
	AS	19	Gage, P.J., <i>et al.</i> , "A Cell-Free Recombination System for Site-Specific Integration of Multigenic Shuttle Plasmids into the Herpes Simplex Virus Type 1 Genome," <i>J. Virol.</i> 66:5509-5515, American Society for Microbiology (1992).
	AT	19	Geoffroy, F., <i>et al.</i> , "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," <i>Gene</i> 151:109-113, Elsevier Science (1994).

EXAMINER

William S. Gage

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	AR	<u>20</u>	Glasgow, A.C., <i>et al.</i> , "DNA-binding Properties of the Hin Recombinase," <i>J. Biol. Chem.</i> 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc. (1989).
	AS	<u>20</u>	Golic, K.G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," <i>Cell</i> 59:499-509, Cell Press (1989).
	AT	<u>20</u>	Gu, H., <i>et al.</i> , "Deletion of a DNA Polymerase $\beta$ Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," <i>Science</i> 265:103-106, American Association for the Advancement of Science (1994).

EXAMINER

*William S. Adams*

DATE CONSIDERED

*4-1-03*

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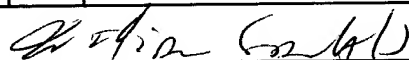
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	AR	21	Guo, F., <i>et al.</i> , "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," <i>Proc. Natl. Acad. Sci. USA</i> 96:7143-7148, National Academy of Sciences (June 1999).
	AS	21	Hall, R.M. and Collis, C.M., "Mobile gene cassettes and integrons: capture and spread of genes by site-specific recombination," <i>Molec. Microbiol.</i> 15:593-600, Blackwell Science Ltd. (February 1995).
	AT	21	Hardy, S., <i>et al.</i> , "Construction of Adenovirus Vectors through Cre-lox Recombination," <i>J. Virol.</i> 71:1842-1849, American Society for Microbiology (March 1997).

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FORM PTO-1449  
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ATTY. DOCKET NO.  
 0942.285000D/BJD/MTT

APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	22	Hasan, N. and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the $P_{tac}$ promoter," <i>Gene</i> 56:145-151, Elsevier Science (1987).
	AS	22	Hasan, N., <i>et al.</i> , "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of <i>ori</i> - plasmids and their in vivo chromosomal integration and retrieval," <i>Gene</i> 150:51-56, Elsevier Science (1994).
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EXAMINER

*William S. S. S. S.*

DATE CONSIDERED 4-1-03

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FILING DATE  
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GROUP  
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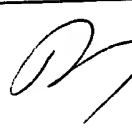
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>23</u>	Hoekstra, M.F., <i>et al.</i> , "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," <i>Meth. Enzymol.</i> 194:329-342, Academic Press, Inc. (1991).
	AS	<u>23</u>	Hoess, R.H. and Abremski, K., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," <i>J. Mol. Biol.</i> 181:351-362, Academic Press, Inc. (1985).
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*William Smith*

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OCT 26 2001

Page 24 of 61

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.2850000/830/MT	APPLICATION NO. 09/07,900
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>24</u>	Hoess, R.H., <i>et al.</i> , "P1 site-specific recombination: Nucleotide sequence of the recombining sites," <i>Proc. Natl. Acad. Sci. USA</i> 79:3398-3402, National Academy of Sciences (1982).
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	AT	<u>24</u>	Hoess, R.H., <i>et al.</i> , "The role of the <i>loxP</i> spacer region in P1 site-specific recombination," <i>Nucl. Acids Res.</i> 14:2287-2300, IRL Press Ltd. (1986).

EXAMINER	<i>William S. Gals</i>	DATE CONSIDERED	<i>4-1-03</i>
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APPLICANT  
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FILING DATE  
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GROUP  
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	AR	<u>25</u>	Hoogenboom, H.R., <i>et al.</i> , "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137, Oxford University Press (1991).
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*William S. Smith*

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OCT 26 2001




TECH CENTER 1600/2900

Page 26 of 61

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

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	AR	<u>26</u>	Jayaram, M., "The <i>Int</i> family of site-specific recombinases: Some thoughts on a general reaction mechanism," <i>J. Genet.</i> 67:29-36, Indian Academy of Sciences (1988).				
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EXAMINER <i>Lillian S. Smith</i>	DATE CONSIDERED 4-1-03
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APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




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	AR	<u>27</u>	Kim, S. and Landy, A., "Lambda Int Protein Bridges Between Higher Order Complexes at Two Distant Chromosomal Loci <i>attL</i> and <i>attR</i> ," <i>Science</i> 256:198-203, American Association for the Advancement of Science (1992).
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EXAMINER

*William S. Adams*

DATE CONSIDERED

*4-1-03*

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OCT 26 2001

Page 28 of 61




TECH CENTER 1600/2900

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

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	AR	28	Kozak, M., "Structural Features in Eukaryotic mRNAs That Modulate the Initiation of Translation," <i>J. Biol. Chem.</i> 266:19867-19870, American Society for Biochemistry and Molecular Biology, Inc. (1991).
	AS	28	Krafte, D.S., <i>et al.</i> , "Stable Expression and Functional Characterization of a Human Cardiac Na <sup>+</sup> Channel Gene in Mammalian Cells," <i>J. Mol. Cell. Cardiol.</i> 27:823-830, Academic Press Ltd. (1995).
	AT	28	Kühn, R., <i>et al.</i> , "Inducible Gene Targeting in Mice," <i>Science</i> 269:1427-1429, American Association for the Advancement of Science (1995).

EXAMINER William S. Sals DATE CONSIDERED 4-1-03

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APPLICATION NO.  
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APPLICANT  
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FILING DATE  
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GROUP  
 1636




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	AN						Yes No
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	AR	29	Lafontaine, D. and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," <i>Nucl. Acids Res.</i> 24:3469-3472, Oxford University Press (1996).
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	AT	29	Lander, E.S., "The New Genomics: Global Views of Biology," <i>Science</i> 274:536-539, American Association for the Advancement of Science (October 1996).

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*William S. Subb*

DATE CONSIDERED 4-1-03

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APPLICANT  
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FILING DATE  
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GROUP  
 1636




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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	30	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," <i>Curr. Op. Genet. Develop.</i> 3:699-707, Current Biology Ltd. (1993).
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	AT	30	Lebreton, B., <i>et al.</i> , "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," <i>Genet.</i> 118:393-400, Genetics Society for America (1988).

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*W.H. Smith*

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FORM PTO-1449

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09/907,900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636




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	AR	<u>31</u>	Lee, E.C., <i>et al.</i> , "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage $\lambda$ H' Recognition Site," <i>J. Bacteriol.</i> 173:609-617, American Society for Microbiology (1991).
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	AT	<u>31</u>	Leong, J.M., <i>et al.</i> , "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994, National Academy of Sciences (1985).

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*William S. Smith*

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	AR	<u>32</u>	Liu, Q., <i>et al.</i> , "The univector plasmid-fusion system, a method for rapid construction of recombinant DNA without restriction enzymes," <i>Curr. Biol.</i> 8:1300-1309, Current Biology Ltd. (November 1998).
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	AT	<u>32</u>	Luckow, V.A., <i>et al.</i> , "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," <i>J. Virol.</i> 67:4566-4579, American Society for Microbiology (1993).

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July 19, 2001GROUP  
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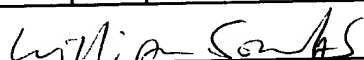
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	AR	<u>33</u>	Maeser, S. and Kahmann, R., "The Gin recombinase of phage Mu can catalyse site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176, Springer-Verlag (1991).
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# RECEIVED

OCT 26 2001

Page 34 of 61




TECH CENTER 1600/2900

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>	
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	AS	34	Medberry, S.L., <i>et al.</i> , "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," <i>Nucl. Acids Res.</i> 23:485-490, Oxford University Press (1995).
	AT	34	Miki, T., <i>et al.</i> , "Control of Segregation of Chromosomal DNA by Sex Factor F in <i>Escherichia coli</i> . Mutants of DNA Gyrase Subunit A Suppress <i>letD</i> ( <i>ccdB</i> ) Product Growth Inhibition," <i>J. Mol. Biol.</i> 225:39-52, Academic Press, Inc. (1992).

EXAMINER William S. [Signature] DATE CONSIDERED 4-1-03

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FORM PTO-1449

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09/907,900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	35	Mizuuchi, K. and Mizuuchi, M., "Integrative Recombination of Bacteriophage $\lambda$ : In Vitro Study of the Intermolecular Reaction," <i>Cold Spring Harbor Symp. Quant. Biol.</i> 43:1111-1114, Cold Spring Harbor Laboratory Press (1979).
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	AT	35	Mozo, T. and Hooykaas, P.J.J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," <i>Mol. Gen. Genet.</i> 236:1-7, Springer-Verlag (1992).

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4-1-03

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ATTY. DOCKET NO.  
 0942.285000D/BJD/MTT

APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
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	AT	36	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA <i>In Vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 72:1072-1076, National Academy of Sciences (1975).

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*William S. Adams*

DATE CONSIDERED 4-1-03

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*Walters Smith*

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GROUP  
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*William S. Smith*

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*4-1-03*

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	AR	39	Nunes-Duby, S.E., <i>et al.</i> , "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in $\lambda$ Excisive Recombination," <i>Cell</i> 59:197-206, Cell Press (1989).
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*William S. Blair*

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APPLICANT  
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FILING DATE  
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GROUP  
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	AR	40	Oliner, J.D., <i>et al.</i> , "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197, Oxford University Press (1993).
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EXAMINER

William S. Smith

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Page 41 of 61

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.285000D/BJD/MTTAPPLICATION NO.  
09/907,900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636

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	AR	<u>41</u>	Padgett, K.A. and Sorge, J.A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier Science (February 1996).
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William S. Aals

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APPLICANT  
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FILING DATE  
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GROUP  
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	AP						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>42</u>	Parks, R.J. and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," <i>J. Virol.</i> 71:3293-3298, American Society for Microbiology (April 1997).
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>43</u>	Pichel, J.G., <i>et al.</i> , "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," <i>Gene</i> 8:3333-3342, Macmillan Press Ltd. (1993).
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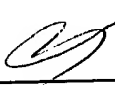


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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>44</u>	Pósfai, G., <i>et al.</i> , "In vivo excision and amplification of large segments of the <i>Escherichia coli</i> genome," <i>Nucl. Acids Res.</i> 22:2392-2398, Oxford university Press (1994).
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*W. J. A. Samuels*

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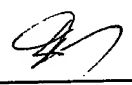


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	AR	45	Reed, R.R. and Grindley, N.D.F., "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," <i>Cell</i> 25:721-728, Massachusetts Institute of Technology (1981).
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William S. Smith

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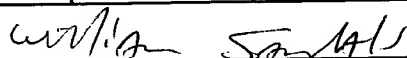
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	AR	<u>47</u>	Sauer, B., "Functional Expression of the <i>cre-lox</i> Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 7:2087-2096, American Society for Microbiology (1987).
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*William A. Smith*

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>48</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24:4608-4613, Oxford University Press (December 1996).
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DATE CONSIDERED

W. J. A. Smith

4-1-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
 0942.285000D/BJD/MTT

APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>49</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at <i>loxP</i> -containing DNA sequences placed into the mammalian genome," <i>Nucl. Acids Res.</i> 17:147-161, IRL Press Ltd. (1989).
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EXAMINER

*William Conklin*

DATE CONSIDERED *4-1-03*

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09/907,900

APPLICANT  
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FILING DATE  
July 19, 2001

GROUP  
1636

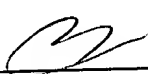


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	AP						Yes
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	AR	50	Schlake, T. and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochemistry</i> 33:12746-12751, American Chemical Society (1994).
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William San A/S

DATE CONSIDERED 4-1-03

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FORM PTO-1449  
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APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




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	AR	51	Senecoff, J.F., <i>et al.</i> , "DNA Recognition by the FLP Recombinase of the Yeast 2 $\mu$ Plasmid : A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421, Academic Press Ltd. (1988).
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*William S. A. C.*

DATE CONSIDERED 4-1-03

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FORM PTO-1449

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ATTY. DOCKET NO.  
0942.285000D/BJD/MTTAPPLICATION NO.  
09/907,900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636




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	AR	52	Sizemore, C., <i>et al.</i> , "Quantitative analysis of <i>Tn10</i> Tet repressor binding to a complete set of <i>tet</i> operator mutants," <i>Nucl. Acids Res.</i> 18:2875-2880, Oxford University Press (1990).
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*William S. Adams*

DATE CONSIDERED

*4-1-02*

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FORM PTO-1449  
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APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




U.S. PATENT DOCUMENTS

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	AR	53	Spengler, S.J., <i>et al.</i> , "The Stereostructure of Knots and Catenanes Produced by Phage $\lambda$ Integrative Recombination: Implications for Mechanism and DNA Structure," <i>Cell</i> 42:325-334, Massachusetts Institute of Technology (1985).
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*William S. Adams*

DATE CONSIDERED 4-1-03

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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

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 0942.285000D/BJD/MTT

APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>54</u>	Sternberg, N., <i>et al.</i> , "Bacteriophage P1 <i>cre</i> Gene and its Regulatory Region: Evidence for Multiple Promoters and for Regulation by DNA Methylation," <i>J. Mol. Biol.</i> 187:197-212, Academic Press, Inc. (1986).
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EXAMINER

*William S. Mills*

DATE CONSIDERED 4-1-02

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APPLICATION NO.  
09/907,900

APPLICANT  
HARTLEY *et al.*

FILING DATE  
July 19, 2001

GROUP  
1636




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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>55</u>	Thompson, J.F., <i>et al.</i> , "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," <i>J. Bacteriol.</i> 168:1343-1351, American Society of Microbiology (1986).
	AS	<u>55</u>	Thompson, J.F., <i>et al.</i> , "Helical-repeat dependence of integrative recombination of bacteriophage $\lambda$ : Role of the P1 and H1 protein binding sites," <i>Proc. Natl. Acad. Sci. USA</i> 85:6323-6327, National Academy of Sciences (1988).
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EXAMINER

William Fawcett

DATE CONSIDERED 9-1-03

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FORM PTO-1449  
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APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




U.S. PATENT DOCUMENTS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>56</u>	Tsurushita, N., <i>et al.</i> , "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," <i>Gene</i> 172:59-63, Elsevier Science (June 1996).
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*W.A. Am 50-141*

DATE CONSIDERED

*4-1-03*

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Page 57 of 61




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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
	APPLICANT HARTLEY <i>et al.</i>	
	FILING DATE July 19, 2001	GROUP 1636

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	57	Wang, G., <i>et al.</i> , "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:7874-7878, National Academy of Sciences (1993).
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EXAMINER <i>William S. Adams</i>	DATE CONSIDERED 4-1-03
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FORM PTO-1449

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0942.285000D/BJD/MTTAPPLICATION NO.  
09/907,900APPLICANT  
HARTLEY *et al.*FILING DATE  
July 19, 2001GROUP  
1636




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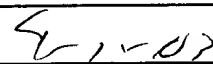
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	AR	<u>58</u>	Weisberg, R.A. and Landy, A., "Site-specific Recombination in Phage Lambda," in: <i>Lambda II</i> , Hendrix, R.W. <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
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	AT	<u>58</u>	Wild, J., <i>et al.</i> , "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene</i> 179:181-188, Elsevier Science (1996).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000D/BJD/MTT	APPLICATION NO. 09/907,900
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	FILING DATE July 19, 2001	GROUP 1636

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	AR	59	Wild, J., <i>et al.</i> , "Targeting and retrofitting pre-existing libraries of transposon insertions with <i>FRT</i> and <i>oriV</i> elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66, Elsevier Science (1998).
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APPLICATION NO.  
 09/907,900

APPLICANT  
 HARTLEY *et al.*

FILING DATE  
 July 19, 2001

GROUP  
 1636




U.S. PATENT DOCUMENTS

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	AP						Yes No

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	AR	<u>60</u>	Yanisch-Perron, C., <i>et al.</i> , "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," <i>Gene</i> 33:103-119, Elsevier Science (1985).
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	AT	<u>60</u>	York, D., <i>et al.</i> , "Simple and efficient generation <i>in vitro</i> of nested deletions and inversions: Tn5 intramolecular transposition," <i>Nucl. Acids Res.</i> 26:1927-1933, Oxford University Press (1998).

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*William S. Adams*

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OCT 26 2001

Page 61 of 61

FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. **TECH CENTER 1600/2900**  
0942.285000D/BJD/MTT APPLICATION NO.  
09/907,900

APPLICANT  
HARTLEY *et al.*

FILING DATE  
July 19, 2001

GROUP  
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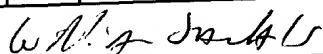
## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
						Yes
						No
	AL					Yes
						No
	AM					Yes
						No
	AN					Yes
						No
	AO					Yes
						No
	AP					

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	61	Zahra, D.G., <i>et al.</i> , "Selectable in-vivo recombination to increase antibody library size - an improved phage display vector system," <i>Gene</i> 227:49-54, Elsevier Science (1994).
	AS	61	Zhang, Y., <i>et al.</i> , "A new logic for DNA engineering using recombination in <i>Escherichia coli</i> ," <i>Nat. Genet.</i> 20:123-128, Macmillan Magazines Ltd. (October 1998).
	AT	61	Zhu, X.-D., <i>et al.</i> , "Homology Requirements for Ligation and Strand Exchange by the FLP Recombinase," <i>J. Biol. Chem.</i> 270:11646-11653, American Society for Biochemistry and Molecular Biology (1995).

EXAMINER



DATE CONSIDERED 4-1-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.